

ABSTRACT

Sub C1

The invention relates to a composite driving belt provided with a carrier and a plurality of transverse elements assembled slidably thereon, the carrier comprising one or more bands, preferably composed of a plurality of endless metal bands disposed radially around each other, each element being provided with a radially outward directed carrier contact plane for contacting a radial inner contact plane of said carrier while in operation, wherein the contacting plane of the transverse element is shaped by an substantially flat surface, while the inner contacting face of the carrier contacting the contact plane the element has a profiled surface, the combined roughness Ra' of both surfaces being more than $0.6 \mu m$, preferably over $0.75 \mu m$. In particular the roughness and shape of the relevant contacting faces of a belt are adapted to achieve a boundary lubricating condition, while the lubricating oil is defined to meet the requirements of prohibiting the occurrence of scratch, at least reducing the urging thereof considerably.